

## HandyAsm

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Documentation for HandyAsm version 1.11  
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This document is proprietary and confidential.

HandyAsm is a 65c02 cross assembler, designed to run on an Amiga computer, and used primarily for the development of software for the Lynx hand-held game system. It is assumed that the reader of this document is familiar with the 65c02 instruction set, addressing modes and mnemonics. HandyAsm is a one-pass assembler (for speed) with expression resolution at the end.

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### Running the assembler & command line options

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From the CLI prompt, type:

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asm <file1> [<file2> ... [<filen>]] [<opt1> [<opt2> ...]]
```

here file1, file2, etc. specify source files to assemble. If no extension is provided in a file name, an extension of .src is assumed. If more than one file name is specified, the files are treated as one continuous source. The assembled output is written to a file in Epyx's BIN format. The default name for the assembler output is taken from the root of the first source file name with .bin appended.

Command line options are specified with either + or - as the first character, followed by the option letter, optionally followed by an argument string. A summary of the command line options follows:

- +B<size> - Output buffer size (default 73728)  
The output buffer must be large enough to hold the BIN output file and all unresolved target files. If assembly fails due to output buffer overflow, use this option to increase it.
- +C - Generate a complete listing (used with +L or +X option)  
This option requires that a BIN file exist from a previous successful assembly. The BIN file is used to resolve forward address references.
- +D<symbol>[=<value>] - Define symbol  
Define the specified symbol and set it equal to value or to -1 if value not specified.
- +E.- Save equated symbols (used with +S option)  
Save all symbols to the symbol file. Normally